Subject Index

Aeration of ethylene oxide sterilized plastics, kinetics of the, 149
Alumina as a filler for bone cement: a feasibility study, 217
An *in vitro* study of mechanical fatigue in glutaraldehyde-treated porcine aortic valve tissue, 3
Apatites, synthetic, characterization of, for bioceramic implants, 140
Arterial substitutes, processed human umbilical veins as, evaluation in canine models, 82
Bioceramic implants, characterization of synthetic apatites for, 140
Bioceramics consisting of calcium phosphate salts, 47
Biocompatibility, implant, 97
Bioerodible polymers, controlled release of biologically active compounds from, 51
Biologically active compounds, controlled release of, from bioerodible polymers, 51
Biological testing or orthopaedic implant materials and implants, proposed guideline for the, 179
Bioplast, an absorbable surgical implant material from Fibrin, properties and applications of, 30
Bonds, enzymatically degradable, polymers containing, V. Hydrophilic polymers degradable by papain, 199
Bone cement, alumina as a filler for, a feasibility study, 217
Bone/porous metallic implant interface, effect of direct electrical current stimulation on the, 209
Bone regeneration, influence of Collagen fleece on, 23
Burn covering, potential, graft polymers of hydroxyethylmethacrylate and butadiene as, 205
Butadiene, hydroxyethylmethacrylate and, graft polymers of, as potential burn covering, 205
Calcium phosphate ceramics, the material science of, 108
Calcium phosphate salts, bioceramics consisting of, 47
Canine models, evaluation in, processed human umbilical veins as arterial substitutes, 82
Carbon fibre reinforced epoxy as a high strength, low modulus material for internal fixation plates, 38
Carbon, a promising material in endoprosthetics. Part 1: The carbon materials and the mechanical properties, 67
Part 2: tribological properties, 73
Cement, bone, alumina as a filler for, a feasibility study, 217
Ceramics, — see also bioceramics
Ceramics, calcium phosphate, the material science of, 108
Characterization of synthetic apatites for bioceramic implants, 140
Chromatographic isolation and identification of methylated derivatives obtained from modified fibrinogen, 183
Collagen fleece, influence of, on bone regeneration, 23
Composites, fibre reinforced polymer, mechanical properties of some, after implantation as fracture fixation plates, 189
Controlled release of biologically active compounds from bioerodible polymers, 51
Controlled release of multi-component cytotoxic agents from radiation polymerized composites, 17
Cytotoxic agents, multi-component, controlled release of from radiation polymerized composites, 17
Degradable bonds, polymers containing enzymatically, V. Hydrophilic polymers degradable by papain, 199
Dental amalgam cavity liner, electrochemical characteristics of the S.I.A., 13
Denture base materials, fatigue testing of, a multi-station machine for the, 125
Denture base polymers, fatigue test machine for, 9
Development of the PVC endotracheal tube, 41
Diazomethane modification, the polymerization of fibrinogen under the influence of, 100
Dissolution in organic saline, IV. Factors influencing, electrical stimulation with Pt electrodes, 129
Dissolution, the effect of protein on Pt, electrical stimulation with Pt electrodes, V, 135
Effect of direct electrical current stimulation on the bone/porous metallic implant interface, 209
Elastomers for maxillofacial applications, 112
Electrical current stimulation, effect of direct, on the bone/porous metallic implant interface, 209
Electrical stimulation with Pt electrodes. IV. Factors influencing dissolution in inorganic saline, 129
V. The effect of protein on Pt dissolution, 135
Electrochemical characteristics of the S.I.A. dental amalgam cavity liner, 13
Encapsulation of total joint replacements, problems of, 33
Endoprosthetics, carbon, a promising material in. Part 1: the carbon materials and their mechanical properties, 67
Part 2: tribological properties, 73
Endotracheal tube, PVC, development of the, 41
Enzymatically degradable bonds, polymers containing, V. Hydrophilic polymers degradable by papain, 199
Ethylene oxide sterilization: effect of polymer structure and sterilization conditions on residue levels, 145
Ethylene oxide sterilized plastics, kinetics of the aeration of, 149
Evaluation of polymeric materials for medical uses, problems and artefacts in the, 103
Fatigue, mechanical, in glutaraldehyde-treated porcine aortic valve tissue, an *in vitro* study of, 3
Fatigue testing of denture base materials, a multi-station machine for the, 125
Fatigue test machine for denture base polymers, 9
Fibre reinforced polymer composites, mechanical properties of some, after implantation as fracture fixation plates, 189
Fibrin, Bioplast, an absorbable surgical implant material from, properties and applications of, 30
Fibrinogen, methylated derivatives obtained from modified, chromatographic isolation and identification of, 183
Fibrinogen, the polymerization of, under the influence of diazomethane modification, 100
Filler for bone cement, alumina as a, a feasibility study, 217
Fracture fixation plates, mechanical properties of some fibre reinforced polymer composites after implantation as, 189
Gelation of poly(vinyl alcohol) solution, proposed method of intracordal injection and, in vocal chords: polymer considerations, 158
Glutaraldehyde-treated porcine aortic valve tissue, An *in vitro* study of mechanical fatigue in, 3
Graft polymers of hydroxyethylmethacrylate and butadiene as potential burn covering, 205
Hip replacement, total, metal ion release after, 193
Hydrophilic polymers, quantitative evaluation of water structuring and protein adsorption on the surface of, by ESCA, 163
Hydroxyethylmethacrylate and butadiene, graft polymers of, as potential burn covering, 205
Injection, intracordal, proposed method of, and gelation of poly(vinyl alcohol) solution in vocal chords: polymer considerations, 158
Implants, bioceramic, characterization of synthetic apatites for, 140
Implant biocompatibility, 97
Implant interface, bone/porous metallic, effect of direct electrical current stimulation on the, 209
Implant material from Fibrin, an absorbable surgical, properties and applications of Bioplast, 30
Implant materials, orthopaedic and implants, proposed guideline for the biological testing of, 179
Influence of Collagen fleece on bone regeneration, 23
Interaction of methylglyoxal with poly-L-Lysine, 27
Interface, bone/porous metallic implant, effect of direct electrical current stimulation on the, 209
Internal fixation plates, carbon fibre reinforced epoxy as a high strength, low modulus material for, 38
Internal prostheses, materials for, the present position and possible future developments, 89
Intracordal injection, proposed method of, and gelation of poly(vinyl alcohol) solution in vocal chords: polymer considerations, 158
Isolation, chromatographic, and identification of methylated derivatives obtained from modified fibrinogen, 183
Joint replacements, total, problems of encapsulation of, 33
Kinetics of the aeration of ethylene oxide sterilized plastics, 149

Subject Index

Aeration of ethylene oxide sterilized plastics, kinetics of the, 149
Alumina as a filler for bone cement: a feasibility study, 217
An *in vitro* study of mechanical fatigue in glutaraldehyde-treated porcine aortic valve tissue, 3
Apatites, synthetic, characterization of, for bioceramic implants, 140
Arterial substitutes, processed human umbilical veins as, evaluation in canine models, 82
Bioceramic implants, characterization of synthetic apatites for, 140
Bioceramics consisting of calcium phosphate salts, 47
Biocompatibility, implant, 97
Bioerodible polymers, controlled release of biologically active compounds from, 51
Biologically active compounds, controlled release of, from bioerodible polymers, 51
Biological testing or orthopaedic implant materials and implants, proposed guideline for the, 179
Bioplast, an absorbable surgical implant material from Fibrin, properties and applications of, 30
Bonds, enzymatically degradable, polymers containing, V. Hydrophilic polymers degradable by papain, 199
Bone cement, alumina as a filler for, a feasibility study, 217
Bone/porous metallic implant interface, effect of direct electrical current stimulation on the, 209
Bone regeneration, influence of Collagen fleece on, 23
Burn covering, potential, graft polymers of hydroxyethylmethacrylate and butadiene as, 205
Butadiene, hydroxyethylmethacrylate and, graft polymers of, as potential burn covering, 205
Calcium phosphate ceramics, the material science of, 108
Calcium phosphate salts, bioceramics consisting of, 47
Canine models, evaluation in, processed human umbilical veins as arterial substitutes, 82
Carbon fibre reinforced epoxy as a high strength, low modulus material for internal fixation plates, 38
Carbon, a promising material in endoprosthetics. Part 1: The carbon materials and the mechanical properties, 67
Part 2: tribological properties, 73
Cement, bone, alumina as a filler for, a feasibility study, 217
Ceramics, — see also bioceramics
Ceramics, calcium phosphate, the material science of, 108
Characterization of synthetic apatites for bioceramic implants, 140
Chromatographic isolation and identification of methylated derivatives obtained from modified fibrinogen, 183
Collagen fleece, influence of, on bone regeneration, 23
Composites, fibre reinforced polymer, mechanical properties of some, after implantation as fracture fixation plates, 189
Controlled release of biologically active compounds from bioerodible polymers, 51
Controlled release of multi-component cytotoxic agents from radiation polymerized composites, 17
Cytotoxic agents, multi-component, controlled release of from radiation polymerized composites, 17
Degradable bonds, polymers containing enzymatically, V. Hydrophilic polymers degradable by papain, 199
Dental amalgam cavity liner, electrochemical characteristics of the S.I.A., 13
Denture base materials, fatigue testing of, a multi-station machine for the, 125
Denture base polymers, fatigue test machine for, 9
Development of the PVC endotracheal tube, 41
Diazomethane modification, the polymerization of fibrinogen under the influence of, 100
Dissolution in organic saline, IV. Factors influencing, electrical stimulation with Pt electrodes, 129
Dissolution, the effect of protein on Pt, electrical stimulation with Pt electrodes, V, 135
Effect of direct electrical current stimulation on the bone/porous metallic implant interface, 209
Elastomers for maxillofacial applications, 112
Electrical current stimulation, effect of direct, on the bone/porous metallic implant interface, 209
Electrical stimulation with Pt electrodes. IV. Factors influencing dissolution in inorganic saline, 129
V. The effect of protein on Pt dissolution, 135
Electrochemical characteristics of the S.I.A. dental amalgam cavity liner, 13
Encapsulation of total joint replacements, problems of, 33
Endoprosthetics, carbon, a promising material in. Part 1: the carbon materials and their mechanical properties, 67
Part 2: tribological properties, 73
Endotracheal tube, PVC, development of the, 41
Enzymatically degradable bonds, polymers containing, V. Hydrophilic polymers degradable by papain, 199
Ethylene oxide sterilization: effect of polymer structure and sterilization conditions on residue levels, 145
Ethylene oxide sterilized plastics, kinetics of the aeration of, 149
Evaluation of polymeric materials for medical uses, problems and artefacts in the, 103
Fatigue, mechanical, in glutaraldehyde-treated porcine aortic valve tissue, an *in vitro* study of, 3
Fatigue testing of denture base materials, a multi-station machine for the, 125
Fatigue test machine for denture base polymers, 9
Fibre reinforced polymer composites, mechanical properties of some, after implantation as fracture fixation plates, 189
Fibrin, Bioplast, an absorbable surgical implant material from, properties and applications of, 30
Fibrinogen, methylated derivatives obtained from modified, chromatographic isolation and identification of, 183
Fibrinogen, the polymerization of, under the influence of diazomethane modification, 100
Filler for bone cement, alumina as a, a feasibility study, 217
Fracture fixation plates, mechanical properties of some fibre reinforced polymer composites after implantation as, 189
Gelation of poly(vinyl alcohol) solution, proposed method of intracordal injection and, in vocal chords: polymer considerations, 158
Glutaraldehyde-treated porcine aortic valve tissue, An *in vitro* study of mechanical fatigue in, 3
Graft polymers of hydroxyethylmethacrylate and butadiene as potential burn covering, 205
Hip replacement, total, metal ion release after, 193
Hydrophilic polymers, quantitative evaluation of water structuring and protein adsorption on the surface of, by ESCA, 163
Hydroxyethylmethacrylate and butadiene, graft polymers of, as potential burn covering, 205
Injection, intracordal, proposed method of, and gelation of poly(vinyl alcohol) solution in vocal chords: polymer considerations, 158
Implants, bioceramic, characterization of synthetic apatites for, 140
Implant biocompatibility, 97
Implant interface, bone/porous metallic, effect of direct electrical current stimulation on the, 209
Implant material from Fibrin, an absorbable surgical, properties and applications of Bioplast, 30
Implant materials, orthopaedic and implants, proposed guideline for the biological testing of, 179
Influence of Collagen fleece on bone regeneration, 23
Interaction of methylglyoxal with poly-L-Lysine, 27
Interface, bone/porous metallic implant, effect of direct electrical current stimulation on the, 209
Internal fixation plates, carbon fibre reinforced epoxy as a high strength, low modulus material for, 38
Internal prostheses, materials for, the present position and possible future developments, 89
Intracordal injection, proposed method of, and gelation of poly(vinyl alcohol) solution in vocal chords: polymer considerations, 158
Isolation, chromatographic, and identification of methylated derivatives obtained from modified fibrinogen, 183
Joint replacements, total, problems of encapsulation of, 33
Kinetics of the aeration of ethylene oxide sterilized plastics, 149

Machine, a multi-station, for the fatigue testing of denture base materials, 125
Machine, fatigue test, for denture base polymers, 9
Materials science of calcium phosphate ceramics, 108
Materials for internal prostheses: the present position and possible future developments, 89
Maxillofacial applications, elastomers for, 112
Mechanical properties of some fibre reinforced polymer composites after implantation as fracture fixation plates, 189
Mechanical properties, the carbon materials and their, Carbon, a promising material in endoprosthetics. Part 1., 67
Metal ion release after total hip replacement, 193
Metallic, porous, implant interface, effect of direct electrical current stimulation on the bone, 209
Methylglyoxal, interaction of with poly-L-Lysine, 27
Methylated derivatives, chromatographic isolation and identification of, obtained from modified fibrinogen, 183
Model media, polycaproamide degradation in rabbits and in several, 214
Multi-station machine for the fatigue testing of denture base materials, 125
Orthopaedic implant materials and implants, proposed guideline for the biological testing of, 179
Papain, hydrophilic polymers degradable by, polymers containing enzymatically degradable bonds, V., 199
Plastics, sterilized, kinetics of the aeration of ethylene oxide, 149
Plates, fracture fixation, mechanical properties of some fibre reinforced polymer composites after implantation as, 189
Plates, internal fixation, carbon fibre reinforced epoxy as a high strength, low modulus material for, 38
Polycaproamide degradation in rabbits and in several model media, 214
Poly-L-Lysine, interaction of methylglyoxal with, 27
Polymer considerations, proposed method of intracordal injection and gelation of poly(vinyl alcohol) solution in vocal chords, 158
Polymer structure, effect of, and sterilization conditions on residue levels, ethylene oxide sterilization, 145
Polymeric materials for medical uses, problems and artefacts in the evaluation of, 103
Polymerization of fibrinogen under the influence of diazomethane modification, 100
Polymers containing enzymatically degradable bonds. V. Hydrophilic polymers degradable by papain, 199
Polymers, graft, of hydroxyethylmethacrylate and butadiene as potential burn covering, 205
Polymers, hydrophilic, degradable by Papain, polymers containing enzymatically degradable bonds. V., 199
Polymers, hydrophilic, quantitative evaluation of water structuring and protein adsorption on the surface of, by ESCA, 163
Problems and artefacts in the evaluation of polymeric materials for medical uses, 103
Problems of encapsulation of total joint replacements, 33
Processed human umbilical veins as arterial substitutes – evaluation in canine models, 82
Properties and applications of Bioplast, an absorbable surgical implant material from Fibrin, 30
Proposed guideline for the Biological testing of orthopaedic implant materials and implants, 179
Proposed method of intracordal injection and gelation of poly(vinyl alcohol) solution in vocal chords: polymer considerations, 158
Protein adsorption on the surface of hydrophilic polymers, quantitative evaluation of water structuring and, by ESCA, 163
Protein, the effect of, on Pt dissolution, electrical stimulation with Pt electrodes, V, 135
Pt electrodes, electrical stimulation with, IV. Factors influencing dissolution in inorganic saline, 129
V. The effect of protein on Pt dissolution, 135
PVC endotracheal tube, development of the, 41
Quantitative evaluation of water structuring and protein adsorption on the surface of hydrophilic polymers by ESCA, 163
Radiation polymerized composites, controlled release of multi-component cytotixic agents from, 17
Release, metal ion, after total hip replacement, 193
Residue levels, effect of polymer structure and sterilization conditions on, ethylene oxide sterilization, 145
Sterilization, ethylene, effect of polymer structure and sterilization conditions on residue levels, 145
Sterilized plastics, ethylene oxide, kinetics of the aeration of, 149
Stimulation, electrical current, effect of direct, on the bone/porous metallic implant interface, 209
Stimulation, electrical, with Pt electrodes. IV. Factors influencing dissolution in inorganic saline, 129
V. The effect of protein on Pt dissolution, 135
Synthetic apatites, characterization of, for bioceramic implants, 140
Testing, biological, of orthopaedic implant materials and implants, proposed guideline for the, 179
Testing, fatigue, of denture base materials, a multi-station machine for the, 125
Tribological properties, Carbon, a promising material in endoprosthetics. Part 2, 73
Umbilical veins, processed human as arterial substitutes – evaluation in canine models, 82
Valve tissue, porcine aortic. An *in vitro* study of mechanical fatigue in glutaraldehyde-treated, 3
Vocal chords, proposed method of intracordal injection and gelation of poly(vinyl alcohol) solution in, polymer considerations, 158
Water structuring, quantitative evaluation of, and protein adsorption on the surface of hydrophilic polymers by ESCA, 163

Author Index

Ackley, Mary Anne and Monroe, Eugene: Alumina as a filler for bone cement: a feasibility study, 217
Atkinson, J.R., Dowling, J.M. and Cicek, R.Z.: Materials for internal prostheses: the present position and possible future developments, 89
Bagnall, R.D.: Implant biocompatibility, 97
Baskett, S.A., *see*: Gilding, D.K., Reed, A.M. and Baskett, S.A.
Benichoux, R., *see*: Guidoin, R., Marois, M., Martin, L., Noel, H.P., Laroche, F., Gosselin, C.O., Cote, R., Benichoux, R. and Blais, P.
Benner, Robert E., *see*: Peppas, Nikolaos A. and Benner, Robert E.
Bigi, A., Incerti, A., Roveri, N., Foresti-Serantoni, E., Mongiorgi, R., Riva di Sanseverino, L., Krajewski, A. and Ravaglioli, A.: Characterization of synthetic apatites for bioceramic implants, 140
Blais, P., *see*: Guidoin, R., Marois, M., Martin, L., Noel, H.P., Laroche, F., Gosselin, C.O., Cote, R., Benichoux, R. and Blais, P.
Bradley, G.W., *see*: McKenna, G.B., Bradley, G.W., Dunn, H.K. and Statton, W.O.
Bradley, J.S., Hastings, G.W. and Johnson-Nurse, C.: Carbon fibre reinforced epoxy as a high strength, low modulus material for internal fixation plates, 38
Broom, Neil D.: An *in vitro* study of mechanical fatigue in glutaraldehyde-treated porcine aortic valve tissue, 3
Bruck, S.D.: Problems and artefacts in the evaluation of polymeric materials for medical uses, 103
Bruckmann, H. and Huttinger, K.J.: Carbon, a promising material in endoprosthetics. Part 1: the carbon materials and their mechanical properties, 67
Bruckman, H., Keuscher, G. and Huttinger, K.J.: Carbon, a promising material in endoprosthetics. Part 2: tribological properties, 73
Brummer, S.B., *see*: McHardy, J., Robblee, L.S., Marston, J.M. and Brummer, S.B.
Brummer, S.B., *see*: Robblee, L.S., McHardy, J., Marston, J.M. and Brummer, S.B.
Carfagna, C., *see*: Migliaresi, C., Carfagna, C. and Nicholais, L.
Castle, J.E., *see*: Gilding, D.K., Paynter, R.W. and Castle, J.E.
Cicek, R.Z., *see*: Atkinson, J.R., Dowling, J.M. and Cicek, R.Z.
Cote, R., *see*: Guidoin, R., Marois, M., Martin, L., Noel, H.P., Laroche, F., Gosselin, C.O., Cote, R., Benichoux, R. and Blais, P.
Craig, R.G., Koran, A. and Yu, R.: Elastomers for maxillofacial applications, 112

Daurova, T.T., *see*: Gumargalieva, K.Z., Moiseev, Yu. V., Daurova, T.T., Voronkova, O.S. and Rozanova, I.B.

de Groot, K.: Bioceramics consisting of calcium phosphate salts, 47

Derbyshire, B., Skorecki, J. and Wheble, V.H.: Problems of encapsulation of total joint replacements, 33

Dobbs, H.S. and Minski, M.J.: Metal ion release after total hip replacement, 193

Dowling, J.M., *see*: Atkinson, J.R., Dowling, J.M. and Cicek, R.Z.

Dunn, H.K., *see:* McKenna, G.B., Bradley, G.W., Dunn, H.K. and Statton, W.O.

Foresti-Serantoni, E., Bigi, A., Incerti, A., Roveri, N., Foresti-Serantoni, E., Mongiorgi, R., Riva di Sanse erino, L., Krajewski, A. and Ravaglioli, A.

Gilding, D.K., Paynter, R.W. and Castle, J.E.: Quantitative evaluation of water structuring and protein adsorption on the surface of hydrophilic polymers by ESCA, 163

Gilding, D.K., Reed, A.M. and Baskett, S.A.: Ethylene oxide sterilization effect of polymer structure and sterilization conditions on residue levels, 145

Gosselin, C.O., *see*: Guidoin, R., Marois, M., Martin, L., Noel, H.P., Laroche, F., Gosselin, C.O., Cote, R., Benichoux, R. and Blais, P.

Guidoin, R., Marois, M. Martin, L., Noel, H.P., Laroche, F., Gosselin, C.O., Cote, R., Benichoux, R. and Blais, P.: Processed human umbilical veins as arterial substitutes — evaluation in canine models, 82

Gumargalieva, K.Z., Moiseev, Yu.V., Daurova, T.T., Voronkova, O.S. and Rozanova, I.B.: Poly-caproamide degradation in rabbits and in several model media, 214

Handlos, Vagn: Kinetics of the aeration of ethylene oxide sterilized plastics, 149

Hastings, G.W., *see*: Bradley, J.S., Hastings, G.W. and Johnson-Nurse, C.

Heller, J.: Controlled release of biologically active compounds from bioerodible polymers, 51

Huttinger, K.J., *see*: Bruckmann, H. and Huttinger, K.J.

Huttinger, K.J., *see*: Bruckmann, H., Keuscher, G. and Huttinger, K.J.

Incerti, A., *see*: Bigi, A., Incerti, A., Roveri, N., Foresti-Serantoni, E., Mongiori, R., Riva di Sanseverino, L., Krajewski, A., and Ravaglioli, A.

Johnson-Nurse. C., *see*: Bradley, J.S., Hastings, G.W. and Johnson-Nurse, C.

Joos, U. and Ochs, G.: Influence of Collagen fleece on bone regeneration, 23

Kaetsu, I., Yoshida, M., Kumakura, M., Yamada, A. and Sakurai, Y.: Controlled release of multi-component cytotoxic agents from radiation polymerized composites, 17

Kerenyi, G.: Properties and applications of Bioplast, an absorbable surgical implant material from Fibrin, 30

Kertesz, Judith C., *see*:Szabo, Gabor; Kertesz, Judith C. and Laki, Koloman

Keuscher, G., *see*: Bruckman, H., Keuscher, G. and Huttinger, K.J.

Kopecek, J., *see*: Ulbrich, K., Zacharieva, E.I., Obereigner, B. and Kopecek, J.

Koran, A., *see*: Craig, R.G., Koran, A. and Yu, R.

Krajewski, A., *see*: Bigi, A., Incerti, A., Roveri, N., Foresti-Serantoni, E., Mongiorgi, R., Riva di Sanseverino, L., Krajewski, A., and Ravaglioli, A.

Kumakura, M., *see*: Kaetsu, I., Yoshida, M., Kumakura, M., Yamada, A., and Sakurai, Y.

Laki, Koloman, *see*: Szabo, Bagor; Kertesz, Judith C. and Laki, Koloman

Laroche, F., *see*: Guidoin, R., Marois, M., Martin, L., Noel, H.P., Laroche, F., Gosselin, C.O., Cote, R., Benichoux, R. and Blais, P.

Lewis, T.T., *see*: Stafford, G.D. and Lewis, T.T.

Manley, T.R. and Stonebanks, J.A.: A multi-station machine for the fatigue testing of denture base materials, 125

Marois, M., *see*: Guidoin, R., Marois, M., Martin, L., Noel, H.P., Laroche, F., Gosselin, C.O., Cote, R., Benichoux, R. and Blais, P.

Marston, J.M., *see*: McHardy, J., Robblee, L.S., Marston, J.M. and Brummer, S.B.

Marston, J.M., *see*: Robblee, L.S., McHardy, J., Marston, J.M. and Brummer, S.B.

Martin, L., *see*: Guidoin, R., Marois, M., Martin, L., Noel, H.P., Laroche, F., Gosselin, C.O., Cote, R., Benichous, R., and Blais, P.

McHardy, J., Robblee, L.S., Marston, J.M. and Brummer, S.B.: Electrical stimulation with Pt electrodes. IV. Factors influencing dissolution in inorganic saline, 129

McKenna, G.B., Bradley, G.W., Dunn, H.K. and Statton, W.O.: Mechanical properties of some fibre reinforced polymer composites after implantation as fracture fixation plates, 189

McHardy, J., *see*: Robblee, L.S., McHardy, J., Marston, J.M. and Brummer, S.B.

Migliaresi, C., Carfagna, C. and Nicholais, L.: Graft polymers of hydroxyethylmeth-acrylate and butadiene as potential burn covering, 205

Minski, M.J., *see*: Dobbs, H.S. and Minski, M.J.

Moiseev, Yu.V., *see*: Gumargalieva, K.Z., Moiseev, Yu. V., Daurova, T.T., Voronkova, O.S. and Rozanova, I.B.

Mongiorgi, R., *see*: Bigi, A., Incerti, A., Roveri, N., Foresti-Serantoni, E., Mongiorgi, R., Riva di Sanseverino, L., Krajewski, A. and Ravaglioli, A.

Monroe, Eugene, *see*: Ackley, Mary Anne and Monroe, Eugene

Newesely, H., *see*: Osborn, J.F. and Newesely, H.

Nicholais, L., *see*: Migliaresi, C., Carfagna, C. and Nicholais, L.

Noel, H.P., *see*: Guidoin, R., Marois, M., Martin, L., Noel, H.P., Laroche, F., Gosselin, C.O., Cote, R., Benichoux, R., and Blais, P.

Obereigner, B., *see*: Ulbrich, K., Zacharieva, E.I., Obereigner, B. and Kopecek, J.

Ochs, G., *see*: Joos, U., and Ochs, G.

Osbahr, A.J.: Chromatographic isolation and identification of methylated derivatives obtained from modified fibrinogen, 000

Osbahr, A.J.: The polymerization of fibrinogen under the influence of diazo-methane modification, 183

Osborn, J.F. and Newesely, H.: The material science of calcium phosphate ceramics, 108

Park, J.B., *see:* Salman, N.N. and Park, J.B.

Paynter, R.W., *see*: Gilding, D.K., Paynter, R.W. and Castle, J.E.

Peppas, Nikolaos, A. and Benner, Robert E.: Proposed method of intracordal injection and gelation of poly(vinyl alcohol) solution in vocal chords: polymer considerations, 158

Ravaglioli, A., *see*: Bigi, A., Incerti, A., Roveri, N., Foresti-Serantoni, E., Mongiorgi, R., Riva di Sanseverino, L., Krajewski, A., and Ravaglioli, A.

Reed, A.M., *see*: Gilding, D.K., Reed, A.M. and Baskett, S.A.

Riva di Sanseverino, L., *see*: Bigi, A., Incerti, A., Roveri, N., Foresti-Serantoni, E., Mongiorgi, R., Riva di Sanseverino, L., Krajewski, A. and Ravaglioli, A.

Robblee, L.S., McHardy, J., Marston, J.M. and Brummer, S.B.: Electrical stimulation with Pt electrodes. V. The effect of protein on Pt dissolution, 135

Robblee, L.S., *see*: McHardy, J., Robblee, L.S., Marston, J.M. and Brummer, S.B.

Roveri, N., *see*: Bigi, A., Incerti, A., Roveri, N., Foresti-Serantoni, E., Mongiorgi, R., Riva di Sanseverino, L., Krajewski, A., and Ravaglioli, A.

Rozanova, I.B., *see*: Gumargalieva, K.Z., Moiseev, Yu. V., Daurova, T.T., Voronkova, O.S. and Rozanova, I.B.

Sakurai, Y., *see*: Kaetsu, I., Yoshida, M., Kumarkura, M., Yamada, A. and Sakurai, Y.

Salman, N.N. and Park, J.B.: Effect of direct electrical current stimulation on the bone/porous metallic implant interface, 209

Skorecki, J., *see*: Derbyshire, B., Skorecki, J. and Wheble, V.H.

Stafford, G.D. and Lewis, T.T.: Fatigue test machine for denture base polymers, 9

Statton, W.O., *see*: McKenna, G.B., Bradley, G.W., Dunn, H.K. and Statton, W.O.

Stonebanks, J.A., *see*: Manley, T.R. and Stonebanks, J.A.

Stoner, G.E., *see*: Zardiackas, L.D. and Stoner, G.E.

Szabo, Gabor, Kertesz, Judith C., and Laki, Koloman: Interaction of methylglyoxal with poly-L-Lysine, 27

Ulbrich, K., Zacharieva, E.I., Obereigner, B. and Kopecek, J.: Polymers containing enzymatically degradable bonds. V. Hydrophilic polymers degradable by papain, 199

Voronkova, O.S., *see*: Gumargalieva, K.Z., Moiseev, Yu. V., Daurova, T.T., Voronkova, O.S. and Rozanova, I.B.

Watson, W.F.: Development of the PVC endotracheal tube, 41

Wheble, V.H., *see*: Derbyshire, B., Skorecki, J. and Wheble, V.H.

Willert, H.G.: Proposed guideline for the biological testing of orthopaedic implant materials and implants, 179

Yamada, A., *see*: Kaetsu, I., Yoshida, M., Kumarkura, M., Yamada, A. and Sakurai, Y.

Yoshida, M., *see*: Kaetsu, I., Yoshida, M., Kumakura, M., Yamada, A. and Sakurai, Y.

Yu, R., *see*: Craig, R.G., Koran, A. and Yu, R.

Zacharieva, E.I., *see*: Ulbrich, K., Zacharieva, E.I., Obereigner, B. and Kopecek, J.

Zardiackas, L.D. and Stoner, G.E.: Electro-chemical characteristics of the S.I.A. dental amalgam cavity liner, 13